

## **Description of Supplementary Files**

File Name: Supplementary Data 1

Description: List of all validated SNVs and Indels found across all samples. These are the variants used in Fig 1 and all other figures comparing mutation data across the whole manuscript.

File Name: Supplementary Data 2

Description: Patientwise list of all validated mutations to show their truncal / branch / private occurrence. This is the raw data for Supplementary Figure 2.

File Name: Supplementary Data 3

Description: This spreadsheet provides tumor purity, ploidy, whole genome doubling pvalue and TP53 mutant status of the 61 samples with SNP array data.

File Name: Supplementary Data 4

Description: This spreadsheet provides the cytoband level copy number change relative to the ploidy for the samples.

File Name: Supplementary Data 5

Description: This spreadsheet provides the gene level copy number change relative to the ploidy for the samples.

File Name: Supplementary Data 6

Description: This spreadsheet provides the cancer cell fraction and mutant allele copy number for EGFR and TP53 SNVs.

File Name: Supplementary Data 7

Description: This spreadsheet provides the GII, adGII scores for each tumor and number of trunk, branch or private driver mutations.

File Name: Supplementary Data 8

Description: This spreadsheet provides the mutation calls from targeted panel for A014 tumor sectors and the patient derived cell line.